

WHAT IS CLAIMED IS:

1. A method of edge enhancement, comprising the acts of:

extracting a high frequency portion of data representative of relative light
5 intensity of a pixel;

determining a correction coefficient based upon a sign and a value of the
extracted high frequency portion of the data, the sign being indicative of a relation
between the relative light intensity of the pixel and that of pixels surrounding the
pixel; and

10 correcting the data based upon the correction coefficient.

2. The method of edge enhancement according to claim 1 wherein said sign is
positive when a value of the data representative of the relative intensity of the
pixel is larger than that of surrounding pixels.

3. The method of edge enhancement according to claim 1 wherein said sign is
negative when a value of the data representative of the relative intensity of the
pixel is smaller than that of surrounding pixels.

4. The method of edge enhancement according to claim 1 wherein the data
representative of the relative light intensity of the pixel is obtained from an input
signal representative of color green (G) in RGB input signals.

5. The method of edge enhancement according to claim 1 wherein a
predetermined set of values is stored in a lookup table for selecting the correction
coefficient value.

6. A system for edge enhancement, comprising:

an extraction unit for extracting a high frequency portion of data
30 representative of relative light intensity of a pixel;

a determination unit connected to said extraction unit for determining a correction coefficient based upon a sign and a value of the extracted high frequency portion of the data, the sign being indicative of a relation between the relative light intensity of the pixel and that of pixels surrounding the pixel; and

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a correction unit connected to said determination unit and said extraction unit for correcting the data based upon the correction coefficient.

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7. The system for edge enhancement according to claim 6 wherein said sign is positive when a value of the data representative of the relative intensity of the pixel is larger than that of surrounding pixels.

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8. The system for edge enhancement according to claim 6 wherein said sign is negative when a value of the data representative of the relative intensity of the pixel is smaller than that of surrounding pixels.

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9. The system for edge enhancement according to claim 6 wherein the data representative of the relative light intensity of the pixel is obtained from an input signal representative of color green (G) in RGB input signals.

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10. The system for edge enhancement according to claim 6 wherein said determination unit further comprises a look up table storing a predetermined set of values for selecting the correction coefficient value.